CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.02/TCP/CSR-06/062d/CEMENT/2016-17 Date: 13.06.2016

TEST REPORT ON CEMENT

*CUSTOMER	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
*AGENCY	:	Mr. T.C. Prathap, Shivapura, Chaldiganahalli Post, Srinivasapura Taluk, Kolar District.
*NAME OF THE WORK	:	Construction of RCC drain at Chowdeshwari Layout 6th Cross roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/YSD/AE-2/84/2016-17 Dated: 10.06.2016
SAMPLE ID	:	Cement – Sample 1
SAMPLE RECEIVED ON	:	10.06.2016
PERIOD OF TESTING	:	10.06.2016 to 13.06.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	445 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH. I.A.
Chief Executive Officer

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Job No.: CTCE/BBMP/W.No.02/TCP/CSR-06/062d/SAND-Gradation/2016-17 : 13.06.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

* Agency : Mr. T.C. Prathap,
Shivapura, Chaldiganahalli Post, Srinivasapura Taluk, Kolar District.

* Name of Work : Construction of RCC drain at Chowdeshwari Layout 6th Cross roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/84/2016-17 Dated: 10.06.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates - Sample 1

Sample Received on : 10.06.2016

Date of Testing : 13.06.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.65	90-100	90-100	90-100	95-100
2.36	77.89	60-95	75-100	85-100	95-100
1.18	58.42	30-70	55-90	75-100	90-100
600 Micron	37.29	15-34	35-59	60-79	80-100
300 Micron	11.81	5-20	8-30	12-40	15-50
150 Micron	2.69	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Civil-Tech Consultants & Engineers Bangalore

Remarks : This sample is under Zone-II specific limits.

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Job No : CTCE/BBMP/W.No.02/TCP/CSR-06/062d/AGG/GR/2016-17 : 13.06.2016

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T.C. Prathap,** Shivapura, Chaldiganahalli Post, Srinivasapura Taluk, Kolar District.
* Name of Work	: Construction of RCC drain at Chowdeshwari Layout 6th Cross roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-2/84/2016-17 Dated: 10.06.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm) - Sample 1
Sample Received on	: 10.06.2016
Date of Testing	: 13.06.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.61	95-100	85-100
20	33.93	30-70	0-20
10	13.39	10-35	0-5
4.75	1.47	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.02/TCP/STEEL/2016-17 15.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T.C. Prathap,** Shivapura, Chaldiganahalli Post, Srinivasapura Taluk, Kolar District.
Name of the Work	:	Construction of RCC drain at Chowdeshwari Layout 6th Cross roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/84/2016-17 Dated: 10.06.2016
Date of Test	:	15.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	511	553	13.15	O.K	O.K

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.02/TCP/STEEL/2016-17 15.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T.C. Prathap,** Shivapura, Chaldiganahalli Post, Srinivasapura Taluk, Kolar District.
Name of the Work	:	Construction of RCC drain at Chowdeshwari Layout 6th Cross roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/84/2016-17 Dated: 10.06.2016
Date of Test	:	15.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	557	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.02/TCP/STEEL/2016-17

15.06.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T.C. Prathap,** Shivapura, Chaldiganahalli Post, Srinivasapura Taluk, Kolar District.
Name of the Work	:	Construction of RCC drain at Chowdeshwari Layout 6th Cross roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/84/2016-17 Dated: 10.06.2016
Date of Test	:	15.06.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	516	559	13.60	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/W.No.02/TCP/CSR-06/062d/CUBE/2016-17 18.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

* Agency : **Mr. T.C. Prathap,**
Shivapura, Chaldiganahalli Post, Srinivasapura Taluk, Kolar District.

* Name of the work : Construction of RCC drain at Chowdeshwari Layout 6th Cross roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/84/2016-17 Dated: 10.06.2016

* Sample ID : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 18.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2016	18.07.2016	8.123	473.2	21.03
2	20.06.2016	18.07.2016	8.284	490.6	21.80
3	20.06.2016	18.07.2016	8.319	507.8	22.57

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T-2377

Job No.: CTCE/BBMP/W.No.02/TCP/CSR-06/062d/CUBE/2016-17 22.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T.C. Prathap,** Shivapura, Chaldiganahalli Post, Srinivasapura Taluk, Kolar District.
* Name of the work	: Construction of RCC drain at Chowdeshwari Layout 6th Cross roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-2/84/2016-17 Dated: 10.06.2016
* Sample ID	: Culvert Deck Slab Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day
Sample Received on	: 22.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2016	22.07.2016	8.235	485.9	21.60
2	24.06.2016	22.07.2016	8.349	499.8	22.21
3	24.06.2016	22.07.2016	8.416	516.7	22.96

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Job No.: CTCE/BBMP/W.No.02/TCP/CSR-06/062d/CUBE/2016-17 28.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

* Agency : **Mr. T.C. Prathap,**
Shivapura, Chaldiganahalli Post, Srinivasapura Taluk, Kolar District.

* Name of the work : Construction of RCC drain at Chowdeshwari Layout 6th Cross roads in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-2/84/2016-17 Dated: 10.06.2016

* Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sample Received on : 28.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.06.2016	28.07.2016	8.357	492.5	21.89
2	30.06.2016	28.07.2016	8.416	515.8	22.92
3	30.06.2016	28.07.2016	8.267	476.9	21.20

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